

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/JP2005/003820

A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 H04L12/56

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 H04L

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 430 843 A (SATO ET AL) 4 July 1995 (1995-07-04) figures 1-4 column 2, lines 13-41 column 3, lines 49-62 column 4, lines 3-46 column 5, lines 1-37 column 6, lines 17-41 column 7, lines 51-57	1-18
A	US 6 671 284 B1 (YONGE, III LAWRENCE W ET AL) 30 December 2003 (2003-12-30) figures 1-5 column 2, lines 1-67 column 3, lines 1-63 column 6, lines 19-62 column 9, lines 25-59 column 20, lines 1-52	1-18
-/-		

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

### \* Special categories of cited documents :

- \*A\* document defining the general state of the art which is not considered to be of particular relevance
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- \*P\* document published prior to the international filing date but later than the priority date claimed

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\*X\* document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

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Date of the actual completion of the international search

3 June 2005

Date of mailing of the international search report

10/06/2005

Name and mailing address of the ISA

European Patent Office, P.B. 5818 Patentlaan 2  
NL - 2280 HV Rijswijk  
Tel. (+31-70) 340-2040, Tx. 31 651 epo nl,  
Fax: (+31-70) 340-3018

Authorized officer

Mircescu, A

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	<p>EP 0 244 251 A (OG CORPORATION)  4 November 1987 (1987-11-04)  figures 1-6  page 6, lines 1-34  page 7, lines 1-3  page 8, lines 1-25  page 9, lines 29-34  page 10, lines 1-22</p> <p>-----</p>	1-18

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Information on patent family members

International Application No  
PCT/JP2005/003820

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 5430843	A	04-07-1995	JP 1852128 C	21-06-1994
			JP 5067096 B	24-09-1993
			JP 63199540 A	18-08-1988
			GB 2201566 A ,B	01-09-1988
			KR 9102015 B1	30-03-1991
US 6671284	B1	30-12-2003	AU 8105501 A	18-02-2002
			WO 0213441 A2	14-02-2002
EP 0244251	A	04-11-1987	US 4768190 A	30-08-1988
			EP 0244251 A2	04-11-1987